

IN THE TITLE:

Please delete the present title and replace it with the following new title:

SHEET PROCESSING APPARATUS HAVING A PLURALITY OF  
CALCULATION SECTIONS

IN THE SPECIFICATION:

Please amend the specification as follows:

Page 1, please replace the paragraph beginning on line 11 and ending on page 1, line 16 with the following new paragraph:

The present invention relates to a processing apparatus of sheets, such as a classifying/sorting apparatus of sheets using accumulation means of a vaned wheel system, which classifies and sorts sheets such as paper money or ~~[[check]]~~ checks, gift ~~certificate~~ certificates, ~~[[and]]~~ or other securities by ~~[[a]]~~ type.

Page 1, please replace the paragraph beginning on line 18 and ending on page 2, line 2 with the following new paragraph:

~~For example, paper~~ Paper money or ~~[[check]]~~ checks, gift ~~certificate~~ certificates, ~~[[or]]~~ other securities, ~~[[and]]~~ or the like function as a key medium of social economic activities, and gather in ~~[[a]]~~ large ~~quantity~~ quantities ~~in a specific position in a process of~~ circulation~~[[,]]~~. ~~[[and]]~~ As a result, a business for sorting these by a face value or ~~[[a]]~~ type ~~[[is]]~~ has developed. In order to automate this type of business or save energy, there has been provided an apparatus called a paper money classifying/sorting apparatus in which separate sheets of paper money are supplied, distinguished, and classified/accumulated by respective types (amounts of money), or formed in bundles each of 100 sheets.

Page 2, please replace the paragraph beginning on line 19 and ending on page 3, line 4 with the following new paragraph:

That is, as shown in FIGS. 1, 2, paper money P horizontally held/fed by a pair of belts (not shown) is sorted by a gate device (not shown), and guided to a vaned wheel 101. Usually, the paper money P is accumulated in a horizontal state as shown in FIG. 1. Even in this vaned wheel system, there is a small probability that a tip end of the paper money P collides against a tip end 102a of a blade 102 of the vaned wheel 101 as shown in FIG. 2. In this case, a

problem is that the paper money P has the tip end thereof bent as shown by J, jumps out of the vaned wheel 101, and indicates an unstable behavior such as a jam.

Page 3, please replace the paragraph beginning on line 5 and ending on page 3, line 10 with the following new paragraph:

Moreover, when the aforementioned phenomenon occurs, the paper money P buckles in the blade 102 of the vaned wheel 101. Furthermore, when two sets of vaned wheels are used as is usual, the paper money disadvantageously enters blades having different phases in the two vaned wheels.

Page 3, please replace the paragraph beginning on line 11 and ending on page 3, line 16 with the following new paragraph:

Once the phenomenon ~~arises even with a small arising~~ occurs even at a low frequency, this causes a serious problem in business. The paper money P is contaminated/damaged, and remains in an irregular position, and there is disagreement in a counted number of sheets of paper money.

Page 5, please replace the paragraph beginning on line 14 and ending on page 5, line 17 with the following new paragraph:

a vaned wheel which has a plurality of blades, and which rotates, thereby ~~allows~~ allowing the feed sheets to enter between the blades, and guides the sheets in a predetermined direction;

Page 5, please replace the paragraph beginning on line 18 and ending on page 5, line 19 with the following new paragraph:

an accumulating section for ~~accumulate~~ accumulating the sheets guided by the vaned wheel;

Page 5, please replace the paragraph beginning on line 20 and ending on page 5, line 23 with the following new paragraph:

at least two detection sections, disposed at a predetermined interval in a feeding direction in a middle portion of the feeding ~~section~~ sections, for detecting the sheets ~~[[feed]]~~ fed by the feeding section;

Page 5, please replace the paragraph beginning on line 24 and ending on page 5, line 27 with the following new paragraph:

measurement section configured to measure a passing time of the sheets ~~[[feed]]~~ fed by the feeding section in each detection section based on a detection result of each detection section;

Page 6, please replace the paragraph beginning on line 14 and ending on page 6, line 15 with the following new paragraph:

detection section configured to detect a type of the sheets from the sheets ~~[[feed]]~~ fed by the feeding section;

Page 6, please replace the paragraph beginning on line 16 and ending on page 6, line 18 with the following new paragraph:

sorting section configured to sort the sheets ~~[[feed]]~~ fed by the feeding section in accordance with a detection result of the detection section;

Page 6, please replace the paragraph beginning on line 19 and ending on page 6, line 24 with the following new paragraph:

a vaned wheel which has a plurality of blades arranged at a predetermined interval in a rotation direction, and which rotates, thereby ~~allows~~ allowing the sheets sorted by the sorting section to enter between the blades, and guides the sheets in a predetermined direction;

Page 6, please replace the paragraph beginning on line 25 and ending on page 6, line 26 with the following new paragraph:

an accumulation section for ~~accumulate~~ accumulating the sheets guided by the vaned wheel;

Page 6, please replace the paragraph beginning on line 27 and ending on page 7, line 3 with the following new paragraph:

at least two detection ~~section~~ sections, disposed at a predetermined interval in a middle portion of the feeding section, for detecting the sheets ~~[[feed]]~~ fed by the feeding section;

Page 7, please replace the paragraph beginning on line 4 and ending on page 7, line 7 with the following new paragraph:

measurement section configured to measure a tip-end passing time of the sheets ~~[[feed]]~~ fed by the feeding section in each detection section based on a detection result of the detection section;

Page 27, please replace the paragraph beginning on line 1 and ending on page 27, line 4 with the following new paragraph:

This operation is performed as an initial setting in a type in which the feeding path is usually rotated with the power ~~[[turn]]~~ turned on before issuance of a supply start command of the paper money P.

Page 27, please replace the paragraph beginning on line 5 and ending on page 27, line 6 with the following new paragraph:

Synchronization setting corresponding to a fluctuation of the feeding ~~[[sped]]~~ speed will next be described.

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A processing apparatus of sheets, comprising:
  - a supply section configured to supply the sheets;
  - a feeding section configured to feed the sheets supplied by the supply section;
  - a vaned wheel which has a plurality of blades, and which rotates, thereby ~~allows~~ allowing said sheets to enter between said blades, and guides the sheets in a predetermined direction;
  - an accumulation section for ~~accumulate~~ accumulating the sheets guided by the vaned wheel;
  - a first detection section provided in the feeding section, for detecting the sheets fed by the feeding section;